

## Product datasheet for **VC100575**

### HCoV-HKU1 N Gene Gene Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HCoV-HKU1 N Gene Gene Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	N Protein
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>The Viral ORF clone VC100575 represents NCBI reference of YP\_173242 with codon optimized for human cell expression

Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAGCTACACCCCGGCCATTACGCCGCGAGCCGGAGCTCCTCCGAAATCGGTCGGGCATCCTCAAGA  
AGACCAGCTGGGCGACCAAGCAGCGAGCGGAACTACCAGACCTTCAATAGAGGACGGAAGACCCAGCCCAA  
GTTACCGTCTCCACCCAGCCCCAGGGGAACAATTCCCCTACTACAGCTGGTTCAGCGGGATCACCCAA  
TTTCAAAAAGGCCGGGACTTCAAGTTTAGCGACGCCAGGGCGTGCCCATCGCCTTCGGCGTGCCTCCCA  
GCGAAGCCAAGGGGTACTGGTATCGGCATAGCCGGCGGAGCTTCAAGACCGCCGACGGGCAGCAGAAGCA  
GCTCTGCCTCGGTGGTACTTCTACTACCTCGGCACAGGCCCTACGCTAATGCCAGCTACGGCGAGAGC  
CTGGAGGGCGTGTGTTGGTTCGCAAACCACAGGCCGACACCTCCACTCCAGCGACGTGAGCTCCCGGG  
ACCCACACCCAGGAGGCCATCCCACCCGGTTTCCCCCGGCACCATCCTGCCCAAGGCTACTACGT  
GGAGGGTCCGGCCGGTCCGCCAGCAATCCCAGCCCGGCGAGCCGGTCCCAGAGCCGGGGACCCAAACAAC  
CGGTCCCTGAGCCGGTCCAACAGCAACTCCGGCACAGCGACAGCATCGTGAAGCCCGATATGGCAGACG  
AGATCGCCAACCTGGTGTGGCCAAAGCTCGGCAAGGACAGCAAGCCACAGCAGGTACCAAGCAGAATGC  
CAAGGAAATCCGCATAAGATTCTGACCAAGCCCCGGCAAAAGCGGACCCCAAACAAGCACTGCAACGTG  
CAGCAGTGCTTCGGCAAGCGGGGCCAGCCAAAATTTCGGGAACGCCGAGATGCTCAAGCTGGGCACCA  
ATGACCCCAAGTCCCATCCTCGCCGAGCTGGCCCCACCCCGCGCCTTCTTCTTCGGCTCCAAGCT  
CGACCTGGTGAAGCGGGATAGCGAGGCCGACAGCCCGTGAAGGACGTCTTTGAGCTGCATTACAGCGGG  
AGCATCCGGTTCGACAGCACCTGCCCCGGCTTCGAGACCATCATGAAGGTGCTGGAGGAGAACCTCAACG  
CCTACGTGAACAGCAACCAGAACACCGACTCCGACAGCCTGTCCAGCAAGCCCAAGAGAAAAGCGGGGCGT  
GAAACAACTGCCCGAGCAGTTCGACAGCCTGAACCTGTCCCGCGCACCCAGCACATCTCCAACGACTTC  
ACACCCGAAGATCACAGCCTCCTGGCCACCCTCGACGACCATACGTGAGGACAGCGTCGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>VC100575 representing YP\_173242

Red=Cloning sites Green=Tags

MSYTPGHYAGSRSSSGNRSILKKTSWADQSERNYQTFNRGRKTQPKFTVSTQPQNTIPHYSWFSGITQ  
FQKGRDFKFSGQGVPIAFGVPPSEAKGYWYRHSRFSFKTADGQQKQLLPRWYFYLLGTPYANASYGES  
LEGVFWANHQADTSTPSDVSSRDPTTQEAIPTRFPPGTILPQGYVEGSGRSASNSRPGSRSQSRGPNN  
RSLSRNSNFRHSDSIVKPDMADEIANLVLA KLKDKSKPQQVTKQNAKEIRHKILTKPRQKRTPNKHCV  
QQCFGKRGPSQNFNAEMLKLGNDPQFPILAELAPTPGAFFFGSKLDLVKRDSEADSPVKDVFELHYSV  
SIRFDSTLPGFETIMKVLEENLNAYVNSNQNTSDSLSSKPQRKRGVKQLPEQFDLNL SAGTQHISNDF  
TPEDHSLLATLDDPYVEDSVA

**TR**TRRLEQKLISEEDLAANDILDYKDDDDK

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja2351\\_h12.zip](https://cdn.origene.com/chromatograms/ja2351_h12.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**



**ACCN:** NC\_006577

**ORF Size:** 1323 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone can be viewed by clicking the "ORF Nucleotide Sequence" link above. This sequence represents the NCBI reference after codon optimization for human cell expression, and retaining the same decoded protein sequence. The stop codon in the native sequence was removed to create the in-frame c-terminal fusion with a Myc-DDK tag.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
  5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NC\\_006577.2, YP\\_173242](#)

**RefSeq ORF:** 1323 bp

Locus ID: 3200423

MW: 49.1 kDa